

Abstract

The present invention provides a capsule endoscope (CE) having a field of view that may be dynamically adjusted. The CE includes an illuminator that may be an optical or acoustical laminator designed to illuminate the lining of a GI tract. A scanner, such as a MEMS scanner may be used to scan the illumination source onto the lining. The scanner may be controlled to dynamically adjust the field of view. A lenslet array may also be used to focus the illumination. The sensor is formed such that it may be curved to a contour and includes a support having sufficient flexibility such that it can be formed to the contour. The substrate includes the sensor and is formed sufficiently thin so that it can be shaped to the contour. The substrate is coupled with the support such that the combination can be formed to the contour.